CLAIMS

What is claimed is:

- A method of treating a fibrosis-related pathology in a subject which comprises administering
 to the subject a therapeutically effective amount of a pharmaceutical composition comprising
 a Phospholipase D inhibitor so as to thereby treat the subject.
 - 2. The method of claim 1 wherein the pharmaceutical composition comprises an oligoribonucleotide or oligonucleotide which down-regulates the expression of gene Phospholipase D by at least 50% as compared to a control.
- The method of claim 1 wherein Phospholipase D comprises any one of PLD1, PLD2 and PLD3.
 - 4. The method of claim 1 wherein the Phospholipase D inhibitor is an antisense oligonucleotide.
 - 5. The method of claim 1 wherein the Phospholipase D inhibitor is a Phospholipase D siRNA.
- 6. The method of claim 1 wherein the Phospholipase D inhibitor is an expression vector comprising a nucleic acid molecule encoding Phospholipase D siRNA.
 - 7. The method of claim 1 wherein the Phospholipase D inhibitor is an antibody which binds specifically to Phospholipase D polypeptide.
 - 8. The method of claim 1 wherein the fibrosis-related pathology is chronic renal insufficiency, chronic renal insufficiency, nephropathy, or kidney fibrosis.
- 20 9. The method of claim 1 wherein the fibrosis-related pathology is ocular scarring or cataract.
 - 10. Use of a compound which inhibits the activity of Phospholipase D in the preparation of a medicament for therapy of fibrosis.
- The use of claim 10 wherein the compound comprises an oligoribonucleotide or oligonucleotide which down-regulates the expression of gene Phospholipase D by at least
 50% as compared to a control.
 - 12. The use of claim 10 wherein Phospholipase D comprises any one of PLD1, PLD2 and PLD3.

- 13. The use of claim 10 wherein the compound is an antisense oligonucleotide.
- 14. The use of claim 10 wherein the compound is a Phospholipase D siRNA.
- 15. The use of claim 10 wherein the compound is an expression vector comprising a nucleic acid molecule encoding Phospholipase D siRNA.
- 5 16. The use of claim 10 wherein the compound is an antibody which binds specifically to Phospholipase D polypeptide
 - 17. The use of claim 10 wherein the fibrosis-related pathology is chronic renal insufficiency, chronic renal insufficiency, nephropathy, or kidney fibrosis.
 - 18. The use of claim 10 wherein the fibrosis-related pathology is ocular scarring or cataract.
- 10 19. A pharmaceutical composition for the treatment of fibrosis comprising as an active ingredient a Phospholipase D inhibitor together with a pharmaceutically acceptable carrier.
 - 20. The pharmaceutical composition of claim 19 wherein Phospholipase D comprises any one of PLD1, PLD2 and PLD3.
- 21. The pharmaceutical composition of claim 19 wherein the Phospholipase D inhibitor is an oligoribonucleotide or oligonucleotide which down-regulates the expression of gene Phospholipase D by at least 50% as compared to a control.
 - 22. The pharmaceutical composition of claim 19 wherein the Phospholipase D inhibitor is an antisense oligonucleotide.
- 23. The pharmaceutical composition of claim 19 wherein the Phospholipase D inhibitor is a Phospholipase D siRNA.
 - 24. The pharmaceutical composition of claim 19 wherein the Phospholipase D inhibitor is an expression vector comprising a nucleic acid molecule encoding Phospholipase D siRNA.
 - 25. The pharmaceutical composition of claim 19 wherein the Phospholipase D inhibitor is an antibody which binds specifically to Phospholipase D polypeptide.
- 25 26. The pharmaceutical composition of claim 19 wherein the fibrosis-related pathology is chronic renal insufficiency, chronic renal insufficiency, nephropathy, or kidney fibrosis.

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- 27. The pharmaceutical composition of claim 19 wherein the fibrosis-related pathology is ocular scarring or cataract.
- 28. A process of preparing a pharmaceutical composition which comprises:
 - (i) obtaining a compound that inhibits the activity of a human Phospholipase D polypeptide; and
 - (ii) admixing said compound with a carrier.
- 29. The process of claim 28, wherein the carrier is a pharmaceutically effective carrier.
- 30. The process of claim 28, wherein the compound admixed with the carrier is present in a pharmaceutically effective amount.

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